

MICROARRAY METHODS UTILIZING SEMICONDUCTOR NANOCRYSTALS

ABSTRACT OF THE DISCLOSURE

The present invention provides a number of different methods for conducting
5 assays with different types of addressable arrays utilizing semiconductor nanocrystals to
enhance detection. The invention includes methods utilizing semiconductor nanocrystals
with nucleic acid, protein and tissue arrays, for example. By utilizing various useful aspects
of semiconductor nanocrystals, the invention also provides a variety of different options for
conducting multiplexed assays. Additionally, detection methods involving counting of
10 individual complexes that include semiconductor nanocrystals are provided which can be
utilized to expand the dynamic range of detection.

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